

540,266

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number  
**WO 2004/060336 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 7/18**

(21) International Application Number:  
PCT/JP2003/017044

(22) International Filing Date:  
26 December 2003 (26.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2002-381820 27 December 2002 (27.12.2002) JP  
2003-327681 19 September 2003 (19.09.2003) JP

(71) Applicant (for all designated States except US): **KAO CORPORATION** [JP/JP]; 14-10, Nihonbashi Kayaba-cho 1-chome, Chuo-ku, Tokyo 103-8210 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **OSHINO, Kazushi** [JP/JP]; c/o KAO CORPORATION, RESEARCH LABORATORIES, 1-3, Bunka 2-chome, Sumida-ku, Tokyo

131-8501 (JP). **YAMAGISHI, Atsushi** [JP/JP]; c/o KAO CORPORATION, RESEARCH LABORATORIES, 1-3, Bunka 2-chome, Sumida-ku, Tokyo 131-8501 (JP). **TOKUNAGA, Tadayuki** [JP/JP]; c/o KAO CORPORATION, RESEARCH LABORATORIES, 1-3, Bunka 2-chome, Sumida-ku, Tokyo 131-8501 (JP). **WAKASA, Masanobu** [JP/JP]; c/o KAO CORPORATION, RESEARCH LABORATORIES, 1334, Minato, Wakayama-shi, Wakayama 640-8580 (JP).

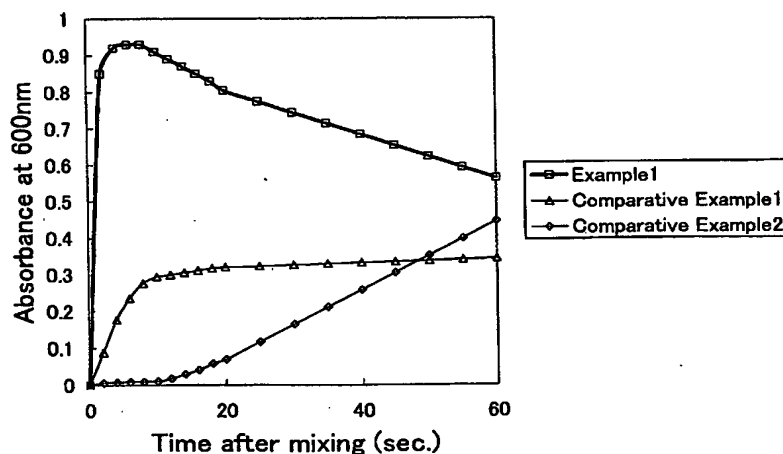
(74) Agents: **KISHIMOTO, Tatsuhito** et al.; c/o TOKYO CENTRAL PATENT FIRM, 4th Floor, Oak Building Kyobashi, 16-10, Kyobashi 1-chome, Chuou-ku, Tokyo 104-0031 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: ORAL PREPARATION SYSTEM

Change of turbidity  
after mixing two agents



(57) Abstract: An oral preparation of the present invention contains a multi-composition system including a calcium ion supplying compound; a fluoride ion supplying compound a polyolphosphate ion supplying compound; and, a monofluorophosphate ion supplying compound, wherein the calcium ion supplying compound and the fluoride ion supplying compound are separated within the oral preparation.

WO 2004/060336 A1



(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*